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SHARP®

DVD Video Player
MODEL

DV-SL85X

OPERATION MANUAL

Precautions
Setup
Functions
Information

RW COMPATIBLE

Please read this Operation Manual carefully before using your DVD Video Player.

The region number for this DVD player is 4.

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Precautions

SAFETY INFORMATION

NOTE:
This unit can be used only where the power supply is AC 220V-240V, 50/60Hz. It cannot be used elsewhere.

CAUTION:

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

AS THE LASER BEAM USED IN THIS unit IS HARMFUL TO THE EYES, DO NOT ATTEMPT TO DISASSEMBLE THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DONOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPARATUS TO DRIPPING OR SPLASHING, NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD BE PLACED ON THE APPARATUS.

Laser Diode Properties

Material:		**GaAs**
Wave length:	**DVD:**	**655 nm**
	CD:	**790 nm**
Emission Duration:		**Continuous**
Laser output:		**Max. 0.8 mW**

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

"Kodak Picture CD COMPATIBLE" is a trademark of Eastman Kodak Company.

DVD is a trademark of DVD Format/Logo Licensing Corporation.

For Customer Use:
Read carefully the information located at the bottom of your unit and enter below the Serial No.
Retain this information for future reference.

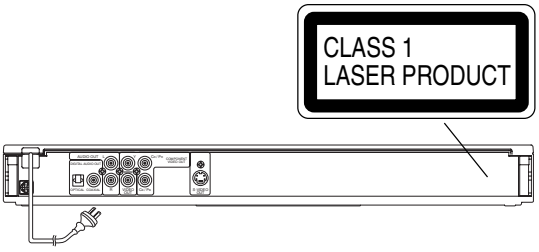
Model No.: DVD Player: DV-SL85X

Serial No.: _____

Power Cord Protection

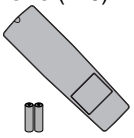
To avoid any malfunctions of the unit, and to protect against electric shock, fire or personal injury, please observe the following.

- Hold the plug firmly when connecting or disconnecting the AC power cord.
- Keep the AC power cord away from heating appliances.
- Never put any heavy object on the AC power cord.
- Do not attempt to repair or reconstruct the AC power cord in any way.
- This unit is classified as a CLASS 1 LASER product.
- The CLASS 1 LASER PRODUCT marking is embossed on the rear cover.
- This product contains a low power laser device. To ensure continued safety, do not remove any cover or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.



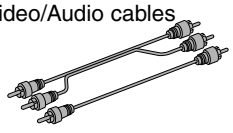
Supplied Accessory

- Remote control with two AA size (R-6) batteries



- Operation Manual

- Video/Audio cables



Symbols Used in This Manual

The following symbols appear in some headings and notes in this manual.

- DVD — Description refers to playback of DVD Video discs (including DVD-RW/-R and DVD+RW/+R discs (Video mode only)).
- DVD -RW VR MODE — Description refers to playback of VR mode (Video Recording format).
  The VR mode (Video Recording format) is a recording mode to enjoy editing the program or manual mode for recording in desired resolution and time.
- CD — Description refers to playback of Audio CDs.
- VCD — Description refers to playback of Video CDs.
- VCD WITHOUT PBC — Description refers to playback of Video CDs without PBC function.
- MP3 — Description refers to playback of MP3 discs.
- JPEG — Description refers to viewing of JPEG discs.

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Features

- **Progressive Scan System**
- **Component Video Out Jacks**
  Jacks located on the back of the unit which are used to send high-quality video to a TV via Component Video In Jacks.
- **DTS (Digital Theater System)**
  You can enjoy 5.1 channel surround sound system developed by Digital Theater System, Inc. which reproduces the original sound as truthfully as possible. External decoder is required.
- **Dolby Digital Sound**
  This unit can handle Dolby Digital surround sound having 5.1 channels when connected to a Dolby Digital decoder.
- **Still/Fast/Slow/Step Playback**
- **Rapid Play**
  Playback in slightly faster/ slower speed while keeping the sound quality as in the normal playback.
  Rapid Play is available only on discs recorded in the Dolby Digital format.
- **Random Playback for Audio CD, MP3, JPEG and Kodak Picture CD**
- **Programmed Playback for Audio CD, MP3, JPEG and Kodak Picture CD**
- **DVD Menus in a Desired Language**
- **Screen Saver/Auto Power-off Functions**
  The screen saver programme starts when there is no input from the unit for 5 minutes in the stop mode. When the screen saver programme is activated for 25 minutes, the power is automatically turned off.
- **Subtitles in a Desired Language**
- **Selecting a Camera Angle**
- **Choices for Audio Language and Sound Mode**
- **Parental Lock**
- **Automatic Detection of Discs**
  This unit automatically detects if a loaded disc is DVD, Audio CD, Video CD, MP3, JPEG and Kodak Picture CD.
- **Playing Disc with MP3 and JPEG Files.**
- **Kodak Picture CD Playback**
- **Dual Playback**
  You can make CD-RW/-R to put your favorite music (MP3) and picture (JPEG) files in one disc with the computer to play back simultaneously.
- **Folder Playback**
  This function lets you play all the files and tracks contained in one selected folder automatically.
- **Direct Search**
- **MPEG audio**
  This unit can handle a disc that supports MPEG audio when it is connected to a MPEG decoder.
- **On-Screen Display**
  Information about the current operation can be displayed on a TV screen, allowing you to confirm the currently active functions (such as Programmed playback), on the TV screen using the remote control.
- **Search**
  Chapter search / Title search / Track search / Time search
- **Repeat**
  Chapter / Title / Track / Group / All / A-B
- **Zoom**
- **Marker**
  The part designated by user can be called back.
- **Resume Play**
- **Virtual Surround**
- **Dimmer**
  The brightness of the Panel Display can be varied.
- **Bit Rate Indication**
- **DRC (Dynamic Range Control)**
  You can control the range of sound volume.
- **Digital Gamma Setting**
- **Video Out**
  When playing back an NTSC disc, select either PAL or AUTO (NTSC) correspondingly to your TV set.

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Location and Handling

- Do not stand the unit vertically. Install the unit in a horizontal and stable position. Do not place anything directly on top of the unit. Do not place the unit directly on top of the TV.
- Do not cover or place the unit in enclosed spaces to prevent excessive temperature build up.
- Do not place the unit in direct sunlight, or near heat sources.
- Depending on the environment, the temperature of the unit may increase slightly. **This is not a malfunction.**
- Keep the unit away from strong magnetic objects.
- Do not place any object containing water or other liquids on the unit. In the event that liquid should enter the cabinet, unplug the unit immediately and contact the retailer or service centre approved by SHARP immediately.
- Do not remove the unit cabinet. Touching parts inside the cabinet could result in electric shock and/or damage to the unit. For service and adjustment inside the cabinet, call a qualified dealer or service centre approved by SHARP.
- Be sure to remove a disc and unplug the AC power cord from the output before carrying the unit.

Nonuse Periods

- When the unit is not being used, switch the unit to the standby mode.
- When left unused for a long period of time, the unit should be unplugged from the household AC outlet.

No Fingers or Other Objects Inside

Do not put your fingers or objects on the disc tray.

Warning of Dew Formation

Moisture may form inside the unit under the following conditions:

- Immediately after a heater is turned on.
- In a steamy or humid room.
- When the unit is suddenly moved from a cold to warm environment.

If moisture forms inside this unit, it may not operate properly. In such case, turn on the power and waitfor more than 2 hours for the moisture to evaporate.

Copyright

Copyright may exist in material you wish to record. Copying such material without permission of the relevant licensee(s) or owner(s) of the copyright is prohibited by law. SHARP is not in a position to authorise the recording of copyright works and nothing in this manual should be read or implied as giving that authority.

Copy Protection

This unit supports Macrovision copy protection. On DVD discs that include a copy protection code, if the contents of the DVD disc are copied using a VCR, the copy protection code prevents the videotape copy from playing normally.

U.S. Patent Nos. 4,631,603; 4,577,216; 4,819,098; 4,907,093; 5,315,448; and 6,516,132.

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Notice for Progressive Scan Outputs

Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of picture problems with 525 or 625 progressive scan output, it is recommended that the user switch the connection to the 'standard definition' output. If there are questions regarding your TV set compatibility with this 525p or 625p DVD player, please contact our customer service centre.

"Licensed under one or more of U.S. Pat. 4,972,484, 5,214,678, 5,323,396, 5,530,655, 5,539,829, 5,544,247, 5,606,618, 5,610,985, 5,740,317, 5,777,992, 5,878,080, or 5,960,037."

If There Is Noise Interference on the TV while a Broadcast Is Being Received

Depending on the reception condition of the TV, interference may appear on the TV monitor while you watch a TV broadcast and the unit is left on. This is not a malfunction of the unit or the TV. To watch a TV broadcast, turn off the unit.

Maintenance

Servicing

1. Please refer to relevant topics in the "Troubleshooting Guide" on page 23 before returning the product.
2. Do not attempt to service this unit yourself. Instead, unplug it and contact a SHARP Approved Service Centre for inspection. (Refer to page 23.)
3. Be sure the service technician uses authorised replacement parts or their equivalents. Unauthorised parts may cause fire, electrical shock, or other hazards.
4. Following any service or repair, be sure the service technician performs safety checks to certify that this unit is in safe operating order.

Cleanning the cabinet

- Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasive.

Cleaning discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the centre out. Do not wipe in a circular motion.
- Do not use solvents such as benzine, thinner, commercially available cleaners, detergent, abrasive cleaning agents or antistatic spray intended for analogue records.

Recommended measures for optimum picture excellence

This unit is a precision device constructed using extremely accurate technology.

- The disc cannot be played if the disc drive component is worn out or if the internal pick up lens is dirty.
- If this unit still does not perform properly although you refer to the relevant sections and to "Troubleshooting Guide" on page 23, the laser optical pickup unit may be dirty. Consult a SHARP Approved Service Centre for inspection and cleaning of the laser optical pickup unit.

Soiling or friction affecting the pickup lens or disc drive can impair the image quality. At the worst, neither video nor audio will be played back. To maintain optimum picture quality, the Player should be serviced (cleaned and replacement of some parts) every 1,000 hours. Note that this period varies depending on the environment (temperature, humidity, dust, etc.) in which the unit is used. Contact your authorised SHARP supplier for details.

Disc handling

- When you handle a disc, hold it by its edge and try not to touch the surface of the disc.
- Always store a disc in its protective case when it is not used.

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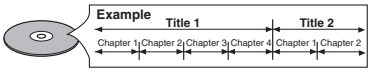
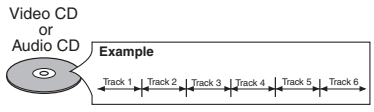
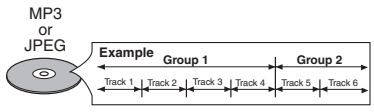
About the Discs

Playable Discs

Playable discs	Mark (logo)	Region code	Recorded signals	Disc size	Disc types
DVD-Video * 1, 2, 3	DVD VIDEO	4 or ALL	Digital video (MPEG2)	12 cm or 8 cm	
DVD-RW DVD-R * 1, 3, 4, 5, 6, 8, 9	DVD RW, DVD R	–			
DVD+RW DVD+R * 1, 3, 4, 5, 7, 8, 9	RW DVD+ReWritable, RW DVD+R	–		12 cm	
Video CD * 3, 5	COMPACT disc DIGITAL VIDEO, VIDEO CD	–	Digital video with audio	12 cm or 8 cm	
Audio CD * 3, 5, 10	COMPACT disc DIGITAL AUDIO	–	Digital audio		
CD-RW CD-R * 3, 4, 5, 8, 9, 10	COMPACT disc DIGITAL AUDIO ReWritable / Recordable	–	Digital audio or MP3 or JPEG		
Kodak Picture CD	Kodak Picture CD COMPATIBLE	–	JPEG	12 cm	

If you cannot play back a disc which bears one of the marks above, check the following notes.

*1: This unit conforms to the PAL colour system. Also you can play back discs recorded with the NTSC system via a PAL system TV set.
*2: Certain DVD-Video discs do not operate as described in this manual due to the intentions of the disc's producers.
*3: Scratched or stained discs may not be played back.
*4: Some discs cannot be played back because of incompatible recording conditions, characteristics of the recorder or special properties of discs.
*5: You can play back discs which bear the marks above. If you use nonstandardised discs, this unit may not play them back. Even if they are played back, the sound or video quality will be compromised.
*6: Depending on the recording status of a disc, the disc may not be played back at all or normally (the picture or sound may not be smooth, etc.). In this case, you need to finalise the disc with the DVD recorder. Refer to the manual accompanying the DVD recorder.
*7: Only the discs recorded in the video mode and finalised can be played back.
Unfinalised discs cannot be played back. Depending on the recording status of a disc, the disc may not be played back at all or the picture or sound may not be smooth, etc.
*8: If the recorded portion of the disc is too small (less than 55 mm across), it may not play back properly.
*9: Do not glue paper or put stickers on to the disc. These may damage the disc, and the unit may not read it correctly.
*10: Also DTS CD is available when the unit is connected to the DTS decoder.

RW COMPATIBLE: This label indicates playback compatibility with DVD-RW discs recorded in VR mode (Video Recording Format).

NOTE:

- This unit cannot play back the DVD-RW/-R recorded of the once-copy programmes.
- This unit cannot play back the DVD-R discs recorded in VR mode (Video Recording Format).
- 8 cm disc is not available on some media.

ABOUT THE PBC FUNCTION OF VIDEO CD

This unit conforms to ver.1.1 and ver.2.0 of Video CD standard, with PBC function.

Ver.1.1 (without PBC function): You can enjoy playback picture as well as music CD.

Ver.2.0 (with PBC function): When using a Video CD with PBC function, "Pbc" appears on the display.

What is PBC? "PBC" stands for the Playback Control. You can play interactive software using a menu screens. Refer to instructions of Video CD.

Unplayable Discs

- **NEVER play back the following discs. Otherwise, malfunction may result:**
  DVD-RAM, CD-I, Photo CD, DVD with region codes other than 4 or ALL, DVD-ROM for personal computers, CD-ROM for personal computers
- **On the following disc, the sound MAY NOT be heard.**
  Super Audio CD
- *Any other discs without compatibility indications.*

Hint

- Only the sound recorded on the normal CD layer can be delivered. The sound recorded on the high density Super Audio CD layer cannot be delivered.

Setup

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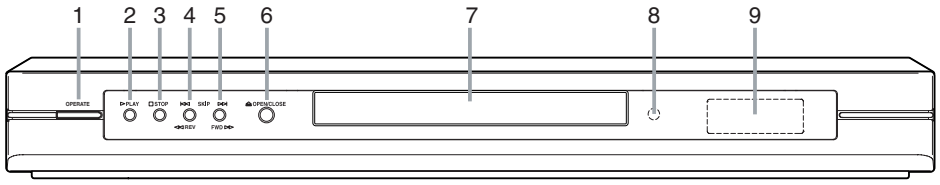
Functional Overview

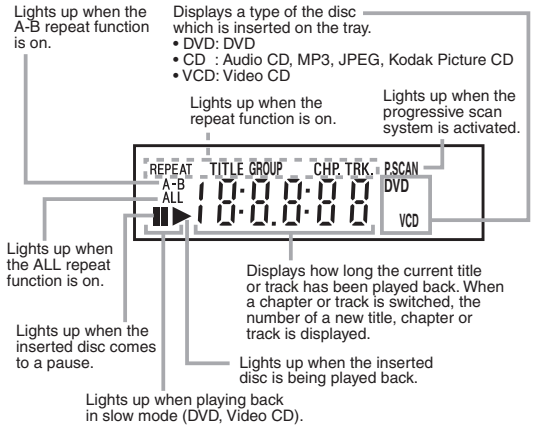
Front Panel

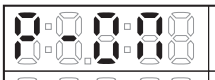
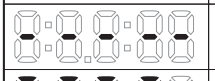
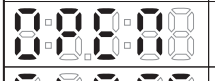
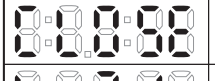


1. **OPERATE**
   To switch the unit ON or OFF.
2. **PLAY ▶**
   To start or resume disc playback.
3. **STOP ■**
   To stop playback.
4. **SKIP ⏮ /REV ◀◀**
   Goes to previous chapter or track during playback; press and hold for 1.5 seconds for a reverse search.
5. **SKIP ⏭ /FWD ▶▶**
   Goes to next chaper or track during playback; press and hold for 1.5 seconds for a forward search.
6. **OPEN/CLOSE ⏏**
   To open/close the disc tray.
7. **Disc Tray**
8. **Remote Sensor Window**
9. **Display**

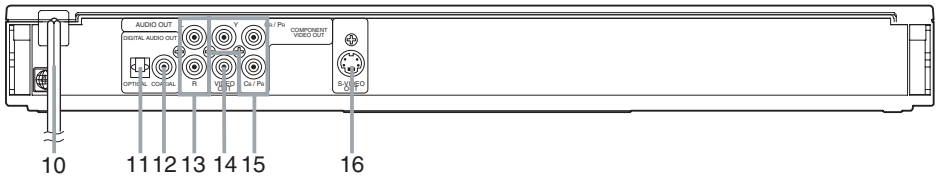
Setup

Display


Lights up when the A-B repeat function is on.
Displays a type of the disc which is inserted on the tray.
• DVD: DVD
• CD : Audio CD, MP3, JPEG, Kodak Picture CD
• VCD: Video CD
Lights up when the repeat function is on.
Lights up when the progressive scan system is activated.
REPEAT
A-B
ALL
TITLE GROUP
CHP. TRK.
PSCAN
DVD
VCD
Lights up when the ALL repeat function is on.
Displays how long the current title or track has been played back. When a chapter or track is switched, the number of a new title, chapter or track is displayed.
Lights up when the inserted disc comes to a pause.
Lights up when the inserted disc is being played back.
Lights up when playing back in slow mode (DVD, Video CD).

	Power on
	No disc inserted or cannot read
	Tray open
	Tray closed
	Loading the Disc
	Lights up when the playback control is activated (VCD).
	Power off

Rear View



10. **MAINS (AC Power Cord)**
    Connect to a standard AC outlet.
11. **OPTICAL (DIGITAL AUDIO OUT)**
    Connect to digital (optical) audio equipment.
12. **COAXIAL (DIGITAL AUDIO OUT)**
    Connect to AUDIO inputs of a digital (coaxial) audio equipment.
13. **AUDIO OUT**
    Connect to AUDIO inputs of an amplifier, receiver, or stereo system.
14. **VIDEO OUT**
    Connect to the Video Input of a TV.
15. **COMPONENT VIDEO OUT**
    Connect to a TV with Component video in jacks.
16. **S-VIDEO OUT**
    Connect to a TV with S-Video inputs.

CAUTION:

• Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit.

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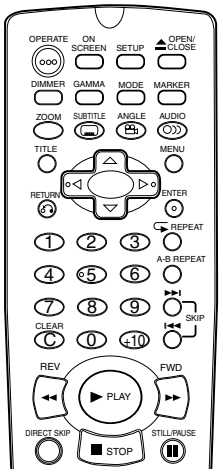
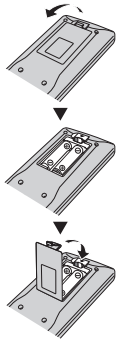
About the Remote Control

Remote Control



Installing the Batteries for the Remote Control

Install two AA size (R-6) batteries (supplied) matching the polarity indicated inside battery compartment of the remote control.



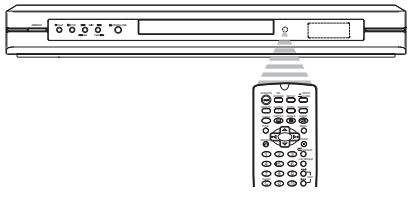
Hint

- Do not mix alkaline and manganese batteries.
- Do not mix old and new batteries.

Keep in mind the following when using the remote control:

- Make sure that there is no obstacle between the remote control and the remote sensor on the unit.
- The maximum operable range as follows;

Beeline: approximately 7 m (23 feet)
Either side of centre:
approximately 5 m (16 feet) within 30 degrees
Above: approximately 5 m (16 feet) within 15 degrees
Below: approximately 3 m (10 feet) within 30 degrees



Button (Alphabetical order) \ Disc	DVD, DVD VR Mode	VCD, CD, MP3, JPEG
1 2 3 4 5 6 7 8 9 0 +10	• Press to select chapter or title directly.	• Press to select track directly.
	• (up/down/left/right) Press to select an item in the menu and to move the cursor.	• (up/down/left/right) Press to select an item in the menu and to move the cursor.
A-B REPEAT	• Repeats playback of a selected section.	• Repeats playback of a selected section (VCD, CD).
ANGLE	• Press to change the camera angle to see the sequence being played back from a different angle (DVD Video).	—
AUDIO	• Press to select a desired audio language or sound mode.	• Press to select a desired sound mode (VCD, CD).
CLEAR	• Press to clear the markers or the incorrect input.	• Press to clear the markers or the incorrect input.
DIMMER	• Press to adjust the brightness of the Panel Display.	• Press to adjust the brightness of the Panel Display.
DIRECT SKIP	• Press to search chapter, title or time.	• Press to search track. • Press to search time (VCD, CD).
ENTER	• Press to accept a setting.	• Press to accept a setting.
FWD	• Fast forwards playback to a desired point. • Press to begin slow forward playback during the pause mode.	• Fast forwards playback to a desired point. • Press to begin slow forward playback during the pause mode (VCD).
GAMMA	• Press to adjust the black parts of the picture brighter.	• Press to adjust the black parts of the picture brighter (VCD).
MARKER	• Press to call back the Marker display.	• Press to call back the Marker display (VCD, CD).
MENU	• Press to display the DVD menus.	• Press to display the MP3 or JPEG file lists.
MODE	• Activates Virtual Surround or Rapid Play.	• Activates programmed playback, random playback or folder playback mode (CD, MP3, JPEG). • Activates the 3D sound (VCD, CD).
ON SCREEN	• Press to display the current playback mode.	• Press to display the current playback mode.
OPEN/ CLOSE	• Press to insert discs into or remove them from the tray.	• Press to insert discs into or remove them from the tray.
OPERATE	• Press to turn the power on and off.	• Press to turn the power on and off.
PLAY	• Press to begin playback.	• Press to begin playback.
REPEAT	• Repeats playback of the current disc, title or chapter.	• Repeats playback of the current disc, group or track.
RETURN	• Returns to the previous operation.	• Returns to the previous operation.
REV	• Fast reverse playback to a desired point. • Press to begin slow reverse playback during the pause mode.	• Fast reverse playback to a desired point.
SETUP	• Press to enter the setup mode or to change setup items.	• Press to enter the setup mode or to change setup items.
SKIP	• Press to skip chapters or titles.	• Press to skip tracks.
STILL/PAUSE	• Press to pause playback or to advance playback one frame at a time.	• Press to pause playback.
STOP	• Press to stop playback.	• Press to stop playback.
SUBTITLE	• Press to select a desired subtitle language.	—
TITLE	• Displays the title menu.	• Press to return to the first hierarchy in the programme and file list when the file list is the second hierarchy or deeper (MP3, JPEG).
ZOOM	• Enlarges part of a DVD-reproduced image.	• Enlarges part of a reproduced image (VCD, JPEG).

Setup

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Connections

Connection to a TV

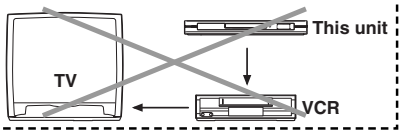
CAUTION:

- Be sure to turn off the unit and equipment to be connected before connecting.
- Read through the Operation Manual for the equipment to be connected.
- Be sure that the colours of the jacks and plugs match up when connecting the cable.
- Be sure to keep the unit connection cables separate from the TV antenna cable when you install the unit, because it may cause electrical interference when you are watching television programmes.
- DTS audio cannot be produced with an analogue connection.

Basic TV connection

CAUTION:

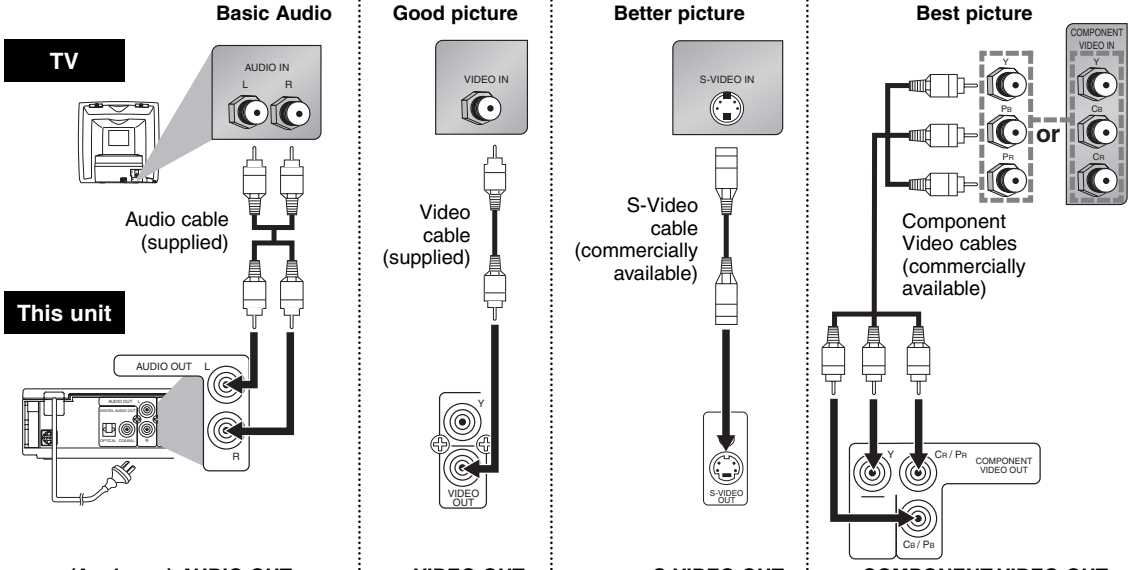
- Connect the unit directly to the TV. Do not connect the unit to a VCR, then connect the VCR to the TV. Copyright protection in the VCR could distort the picture playing on the unit.



Setup

Method 1 **Method 2** **Method 3**

Basic Audio **Good picture** **Better picture** **Best picture**



(Analogue) AUDIO OUT **VIDEO OUT** **S-VIDEO OUT** **COMPONENT VIDEO OUT**

NOTES:

- If you want to listen to the audio through audio equipment, connect only the S-Video or Video cable to the TV.
- When the unit is connected to a TV using both a Video cable and an S-Video cable, only the S-Video connection is enabled (the Video connection is disabled).
- You will not be able to hear all of the sound being output by the unit if you use the Video/Audio cable (supplied) to a monaural TV that has only one AUDIO input jack.

If your TV is compatible with 525 or 625 progressive scanning and you want to enjoy that high quality picture;

You must select the connection Method 3 above and progressive scanning mode. To set the mode, set "PROGRESSIVE" to "ON" in the DISPLAY menu so that "P.SCAN" will appear on the display of this unit. See pages 18, 19 for more details.

- You can set "PROGRESSIVE" to "OFF" either in the DISPLAY menu or by pressing and holding **PLAY ▶** on the front of the unit for more than 5 seconds.
- When "PROGRESSIVE" is "ON", video signals from the unit's VIDEO OUT and S-VIDEO OUT jacks will be distorted or not be output at all.

If your TV is not compatible with progressive scanning;

Use this unit in interlace mode. Make sure that no "P.SCAN" is on the display of this unit. If so, set "PROGRESSIVE" to "OFF" in the DISPLAY menu so that "P.SCAN" on the display of this unit will disappear.

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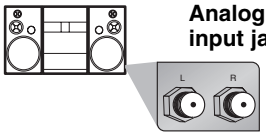
Connection to an Audio System

Method 1

Stereo system

AUDIO

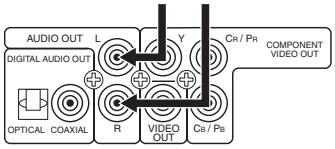
Analogue audio input jacks



Audio cable (supplied)

This unit

(Analogue) AUDIO OUT



Setting / Connection	SETUP > (QUICK) > DOLBY DIGITAL	DTS	MPEG
Connecting to Stereo System.	DPCM	OFF	DPCM

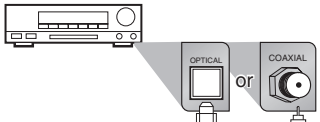
* To complete these settings, refer to pages 18, 20.

Hint

- Playing back a DVD using incorrect settings may generate noise distortion and may also damage the speakers.

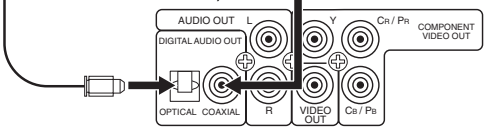
Method 2

Dolby Digital decoder, DTS decoder, MPEG decoder, MD deck or DAT deck



Digital audio input jack

Audio Coaxial or Optical Digital cable (commercially available)



DIGITAL AUDIO OUT

Setting / Connection	SETUP > (QUICK) > DOLBY DIGITAL	DTS	MPEG
Connecting to a Dolby Digital, DTS decoder or MPEG decoder for Dolby Digital, DTS or MPEG audio output.	BITSTREAM		
Connecting to the other equipment (an MD deck or DAT deck etc.) without Dolby Digital decoder.	DPCM	OFF	DPCM

* To complete these settings, refer to pages 18, 20.

Hint

- The audio source on a disc in a Dolby Digital 5.1 channel surround format cannot be recorded as digital sound by an MD or DAT deck.
- By hooking this unit up to a Multi-channel Dolby Digital decoder, you can enjoy high-quality Dolby Digital 5.1 channel surround sound as heard in the movie theatres.
- By hooking this unit up to the DTS decoder, you can enjoy 5.1 channel surround system which reproduces the original sound as truthfully as possible. 5.1 channel surround system is developed by the Digital Theater System Inc.
- Playing back a DVD using incorrect settings may generate noise distortion and may also damage the speakers.

Optical cable (not supplied)

- Optical cable (not supplied) may be damaged when bent at sharp angles. Ensure cables are coiled in loops with a diameter of 15 cm or more when storing them.
- Use a cable which is 3 m or shorter.
- Insert cable plugs firmly into the connectors when making connections.
- If a plug has dust or is dirty, clean it with a soft cloth before inserting it into a connector.

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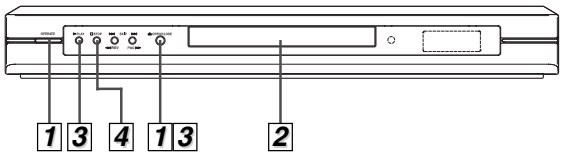
Functions

Operations described after this section are mainly based on the remote control use. Some operations can be carried out on main unit.

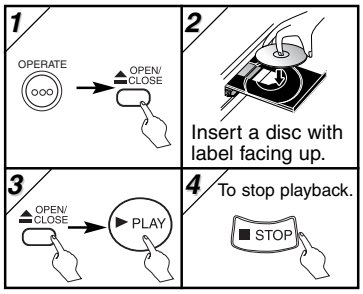
Playback

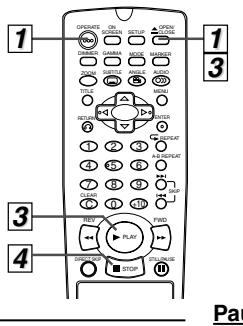
Before: Turn on the TV, amplifier and any other equipments which are connected to this unit. Make sure the TV and audio receiver (commercially available) are set to the correct channel.When you play NTSC recorded discs, the default setting converts this to a modified PAL. (See page 19 “DISPLAY Setting”.)



DVD DVD-RW VR MODE CD VCD

(MP3 JPEG page 12)





DISC menu

Some discs contain menus which allow you to customise disc playback.
Use **Cursor ▲ / ▼ / ◀ / ▶** or **the Number buttons** to select an item, then press **ENTER** or **PLAY ▶**.

Calling up a Menu Screen (for playback of a DVD Video)

- Press **MENU** to call up the DVD menu.
- Press **TITLE** to call up the title menu.

Cancelling the PBC (for playback of a Video CD)

1. Insert a Video CD. (Playback will start automatically.)
2. Press **STOP ■.**
3. Enter track number of your choice with **the Number buttons.**
4. PBC is now cancelled and the playback of the Video CD will start.

Hint

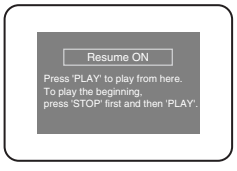
- If the feature is not available, ⃠ symbol may appear on the TV screen.
- Menu operations may vary depending on the disc. Refer to the manual accompanying the disc for more details.

Resume

DVD DVD-RW VR MODE CD VCD WITHOUT PBC MP3 JPEG

Press **STOP ■** during playback. Resume message will appear on the TV screen.

Press **PLAY ▶**, playback will resume from the point at which playback was stopped.



<Example : DVD>

Hint

- To cancel resume, press **STOP ■** one more time during the stop mode. On some discs, **STOP ■** will not work while the Resume message appears. Please wait until the message disappears.
- For MP3 and JPEG, playback will resume from the beginning of the track at which playback was stopped.
- The resume information will be kept even when the power is turned off.

Hint

- You can change the On-Screen language in “PLAYER MENU” setting. (Refer to pages 18, 19.)
- When you play back MP3 or JPEG files, details are on page 12.
- A “prohibited icon” may appear at the top-right on the TV screen when the operation is prohibited by the disc or this unit.
- Some DVDs may start playback from title 2 or 3 due to specific programmes.
- During the playback of a 2-layered disc, pictures may stop for a moment. This happens while the 1st layer is being switched to the 2nd layer. This is not a malfunction.
- A DVD-RW disc recorded in the VR mode may freeze momentarily during playback depending on how the playlist was made and edited (deleted titles, repeated recording).

Paused and Step-by-Step Playback

DVD DVD-RW VR MODE CD VCD MP3 JPEG

Press **STILL/PAUSE ❚❚** during playback.

- Playback will be paused and sound will be muted.
- Press **STILL/PAUSE ❚❚** once during Dual/Folder Playback to pause a JPEG file only. Press **STILL/PAUSE ❚❚** one more time to pause an MP3 track.

To continue playback, press **PLAY ▶**.

DVD DVD-RW VR MODE VCD

The disc goes forward by one frame each time **STILL/PAUSE ❚❚** is pressed during the pause mode.
To continue playback, press **PLAY ▶**.

Hint

- On DVDs, set “STILL MODE” to “FIELD” in the Display menu if pictures in the pause mode are blurred. (Refer to pages 18, 19.)

Fast Forward/Reverse Search

DVD DVD-RW VR MODE CD VCD MP3

Press **FWD ▶▶** or **REV ◀◀** repeatedly during playback to select the required forward or reverse speed.
To continue playback, press **PLAY ▶**.

Hint

- On DVDs, set "STILL MODE" to "FIELD" in the DISPLAY menu if pictures during fast forward and reverse search are blurred.
- For DVDs, fast forward or reverse search speed is different depending on the disc.
- For DVDs, approximate speed is 1(x2), 2(x8), 3(x20), 4(x50) and 5(x100).
- For Audio CDs, Video CDs and MP3, approximate speed is 1(x2), 2(x8) and 3(x30).
- For Audio CDs and MP3, sound will be output during Fast Forward or Reverse Search.
- If you are using **FWD ▶▶** or **REV ◀◀** on the front panel, press and hold it for more than 1.5 seconds. When you reach the desired speed, release the button.

Functions

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Slow Forward/Slow Reverse

DVD DVD-RW VR MODE VCD

Press **FWD ▶▶** or **REV ◀◀** repeatedly during the pause mode to select the required forward or reverse speed.
To continue playback, press **PLAY ▶**.

Hint

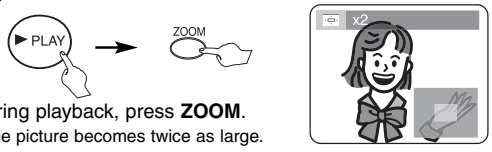
- Slow forward or reverse speed is different depending on the disc. Approximate speed is 1(1/16), 2(1/8) and 3(1/2).
- On DVDs, set "STILL MODE" to "FIELD" in the Display menu if pictures in the slow playback mode are blurred. (Refer to page 19.)
- If you are using **FWD ▶▶** or **REV ◀◀** on the front panel, press and hold it for more than 1.5 seconds. When you reach the desired speed, release the button.
- You cannot play back Video CDs in reverse slow motion.

Zoom

DVD DVD-RW VR MODE VCD JPEG

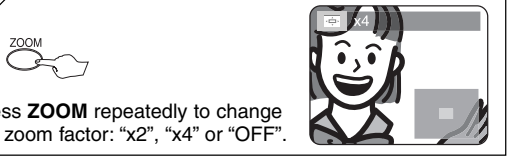
The zoom function allows you to enlarge the video image and to pan through the enlarged image.

1



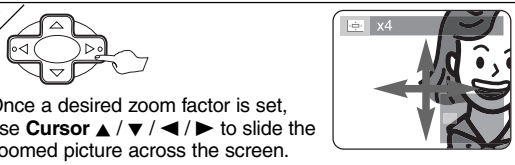
During playback, press **ZOOM**.
- The picture becomes twice as large.

2



Press **ZOOM** repeatedly to change the zoom factor: "x2", "x4" or "OFF".

3



Once a desired zoom factor is set, use **Cursor ▲ / ▼ / ◀ / ▶** to slide the zoomed picture across the screen.

4

To exit zoom function, press **ZOOM** repeatedly to select "OFF".

Hint

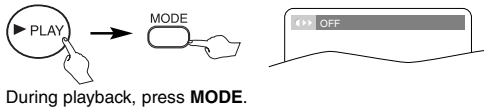
- Zooming function does not work while the disc menu is showing up.
- x4 zoom is not available on some discs.
- Only x2 zoom is available on Video CDs and JPEG.
- You may not be able to move zoomed JPEG pictures.
- Zooming function is also available during pause mode.

Rapid Play

DVD DVD-RW VR MODE

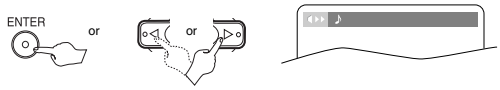
Rapid Play function is available only during playback. Available only on discs recorded in the Dolby Digital format, Rapid Play plays back in slightly faster/slower speed with sound that is close to normal playback quality.

1



During playback, press **MODE**.
- The current setting appears.

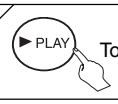
2



Press **ENTER** or **Cursor ◀ / ▶** to switch among " ♪♪ (x1.3)", " ♪ (x0.8)" and "OFF".

♪ : Plays back approximately at 0.8 times of normal playback.
♪♪ : Plays back approximately at 1.3 times of normal playback.
OFF : No effects.

3



To continue normal playback.

Hint

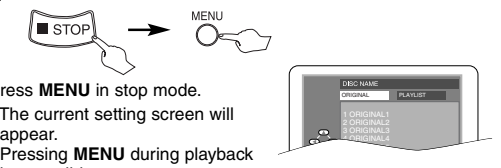
- Audio (language) setting cannot be changed while using this mode.
- Virtual Surround and Digital Gamma settings cannot be changed while using this mode.
- Virtual Surround does not function while using this mode.
- This feature may not work at some point in a disc.
- When using digital audio connection, the DPCM sound will be output.

Playing the Disc Recorded in VR Mode (Video Recording Format)

DVD DVD-RW VR MODE

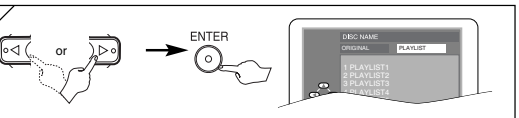
DVDs recorded in VR mode can have a PLAYLIST assigned to alter the order or content to be played back. If a PLAYLIST has been created, you can choose the ORIGINAL or PLAYLIST option.

1



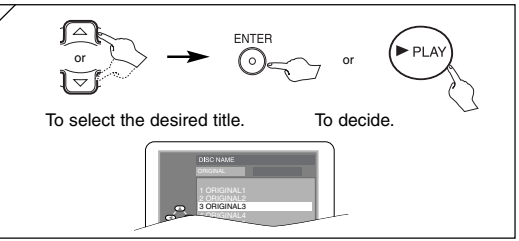
Press **MENU** in stop mode.
- The current setting screen will appear.
- Pressing **MENU** during playback is not valid.

2



ORIGINAL: A list of titles which are recorded with a DVD recorder.
PLAYLIST : A list of titles which is made based on the ORIGINAL edited list.

3



To select the desired title. To decide.

Hint

- PLAYLIST will not be displayed when it has not been made.
- Resume playback will not be possible if you change the setting.
- When discs recorded in VR mode, changing the audio (MAIN, SUB or MAIN+SUB) is effective only when using an analogue connection. Although you may be able to change the settings of the on-screen display, it will not affect the sound when using a digital connection.

Functions

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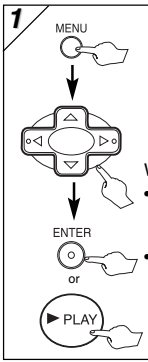
MP3, JPEG Playback

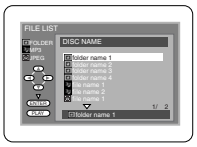
MP3 or JPEG is a method of compressing files. You can copy MP3 or JPEG files on CD-RW/-Rs from the computer and play back the files on this unit.

MP3 JPEG

Insert a MP3 or JPEG-format disc, then press **MENU** to call up the FILE LIST on the TV screen.

1

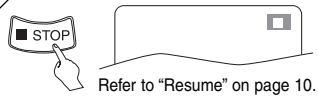




When selecting the folder:

- Press **Cursor ▶** when you want to go to the next hierarchy.
- Press **Cursor ◀** when you want to go back to the previous hierarchy (except for the top hierarchy).

2



Refer to "Resume" on page 10.

Hint

- Some selections may take a while to be recognised.
- Press **TITLE** to return to the 1st item.
- Press **MENU** or **RETURN** to go back to the opening display.
- Folders are known as Groups; files are known as Tracks.
- Folders, MP3 files and JPEG files are displayed respectively as □, ♪ and ◎.
- A maximum of 255 folders or 999 files may be recognised in one disc.
- Up to 8 hierarchies can be recognised in one folder. Files in the 9th or deeper hierarchies cannot be played back.
- This unit can play back images and sounds from data recorded in MP3 and JPEG formats on CD-RW/-R discs.
- A file with an extension of ".mp3 (MP3)" is called an "MP3 file" and a file with an extension of ".jpg (JPG)" or ".jpeg (JPEG)" is called a "JPEG file".
- The unit can run an image file conforming to the Exif specification. Exif is a file format, Exchangeable Image File format established by Japanese Electronic Industry Development Association (JEIDA).
- Files whose extension is other than ".mp3 (MP3)", ".jpg (JPG)" and ".jpeg (JPEG)" will not be listed in the MP3 or JPEG menu.
- If the file is not recorded in MP3 or JPEG format, noise may be produced even if the file extension is either ".mp3 (MP3)", ".jpg (JPG)" or ".jpeg (JPEG)".
- The name of group and track can be displayed in up to 25 characters. Unrecognisable characters will be replaced with asterisks.
- Unplayable groups or tracks may be displayed depending on the recording conditions.
- If **TITLE** is pressed when a FILE LIST is displayed, the 1st item will be highlighted.
- Progressive JPEGs (JPEG Files saved in the progressive format) will not play on this unit.

This unit recommends the files recorded under the following circumstances:

Applicable MP3 file	Remarks
Sampling frequency: 44.1kHz or 48kHz	For MP3 file recorded in Variable Bit Rate (VBR), the unit may not display the actual elapsed time.
Constant bit rate: 32kbps ~ 320kbps	

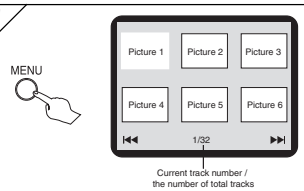
Applicable JPEG file	Remarks
Normal playback Upper limit: 6,300 x 5,100 dots Lower limit: 32 x 32 dots File size: Max. 5MB	A JPEG image that extends beyond the screen is reduced so that it will be displayed within the screen.
Dual playback Upper limit: 4,000 x 4,000 dots Lower limit: 32 x 32 dots File size: Max. 3MB	

Kodak Picture CD

JPEG

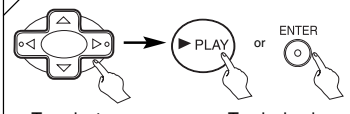
The unit can also run JPEG files stored on Kodak Picture CDs. The Picture CD is a service to convert photographs taken by a conventional film camera into digital data and write the data on a CD. The user can enjoy picture images on the television set by playing back the Picture CDs.
For details of Kodak Picture CD, contact a shop that deals with developing service of Kodak Inc.

1



- If all menu items cannot be displayed in the screen scope, "▶▶|" appears at the right bottom of the screen, indicating that the user can view remaining items on the next page. "|◀◀" appears, it indicates that the user can view other items on the previous page. The track number of the currently highlighted item and the total tracks are shown at the centre bottom of the screen.
- If "▶▶|" is shown at the right bottom, use **SKIP ▶▶|** to view the next page. If "|◀◀" is shown at the left bottom, use **SKIP |◀◀** to view the previous page.
- It may take some time until all menu items are displayed on the menu screen.

2



To select a desired track. To playback.

- If a Kodak Picture CD file is selected, an image will be played back from the selected track and go to the next one in turn.

Hint

- A track is displayed for 5 seconds and then the next track is displayed.
- Every press on **Cursor ▶** will turn the image clockwise by 90 degrees when an image is displayed. A press on **Cursor ◀** will turn the image counterclockwise by 90 degrees.
- If a group is selected, press **Cursor ▲ / ▼** to select a desired group, then press **Cursor ▶**, **PLAY ▶** or **ENTER** to select a track.

Functions

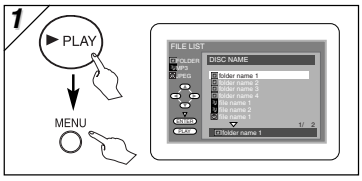
Downloaded From Disc-Player.com Sharp Manuals

Dual Playback

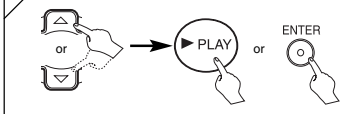
MP3 JPEG

This function lets you play back MP3 and JPEG files simultaneously.
Available only when Dual Playback is ON. See pages 18, 21 on how to set the Dual Playback ON or OFF.

1



2



To select a desired MP3 or JPEG file from the FILE LIST.

To playback.

Hint

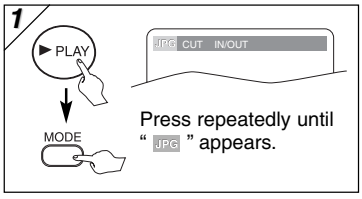
- To cancel Dual Playback, press **MENU** again at step [1].
- If you press **PLAY** ► directly after you inserted a disc which contains both MP3 tracks and JPEG files and if the "DUAL PLAYBACK" setting is "ON", Dual Playback will start automatically.
- If you press **FWD** ►► or **REV** ◄◄ during Dual Playback, a JPEG file will be paused.
- Zooming or rotating a JPEG file during Dual Playback may cause an intermittent sound.
- Depending on the data size of each file, Dual Playback may not function properly. (Refer to "Applicable JPEG file" on page 12.)

Transition Mode

JPEG

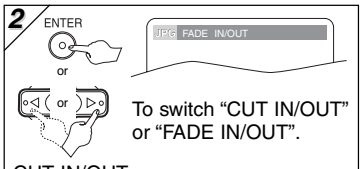
You can switch to the Transition Mode for JPEG files during playback.

1



Press repeatedly until " JPG " appears.

2



To switch "CUT IN/OUT" or "FADE IN/OUT".

CUT IN/OUT:
The entire image appears in one time.

FADE IN/OUT:
The image appears gradually and then disappears.

3

Hint

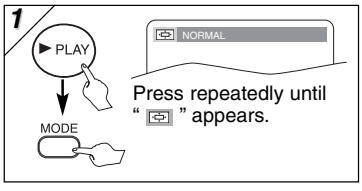
- The Transition mode cannot be switched when it is stopped, or from the FILE LIST screen or the Picture CD menu screen.
- The default setting is "CUT IN/OUT".

Adjustment of Picture Size

JPEG

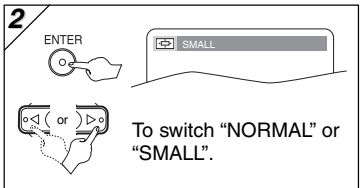
Depending on the TV connected to this unit, the overall picture cannot be displayed and the edge of the picture can be cut off. In this case, you can adjust the size of the JPEG playback image on screen.

1



Press repeatedly until " " appears.

2



To switch "NORMAL" or "SMALL".

NORMAL:
To display the image at 100% of the picture size.

SMALL:
To display the image at 95% of the picture size.

3

Hint

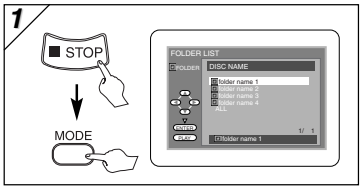
- The setting screen will not be displayed while in the stop mode or from the FILE LIST.
- This feature may have no effect on some files (e.g. Files with a small picture size).
- The default setting is "NORMAL".

Folder Playback

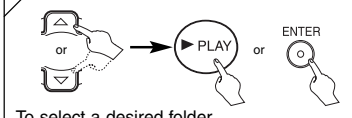
MP3 JPEG

This function lets you play all the files and tracks contained in one selected folder automatically.
If the folder contains both MP3 and JPEG files, the Dual Playback will begin automatically within that folder.
Available only when Dual Playback is ON. See pages 18, 21 on how to set the Dual Playback ON or OFF.

1



2



To select a desired folder from the FOLDER LIST.

To playback.

Hint

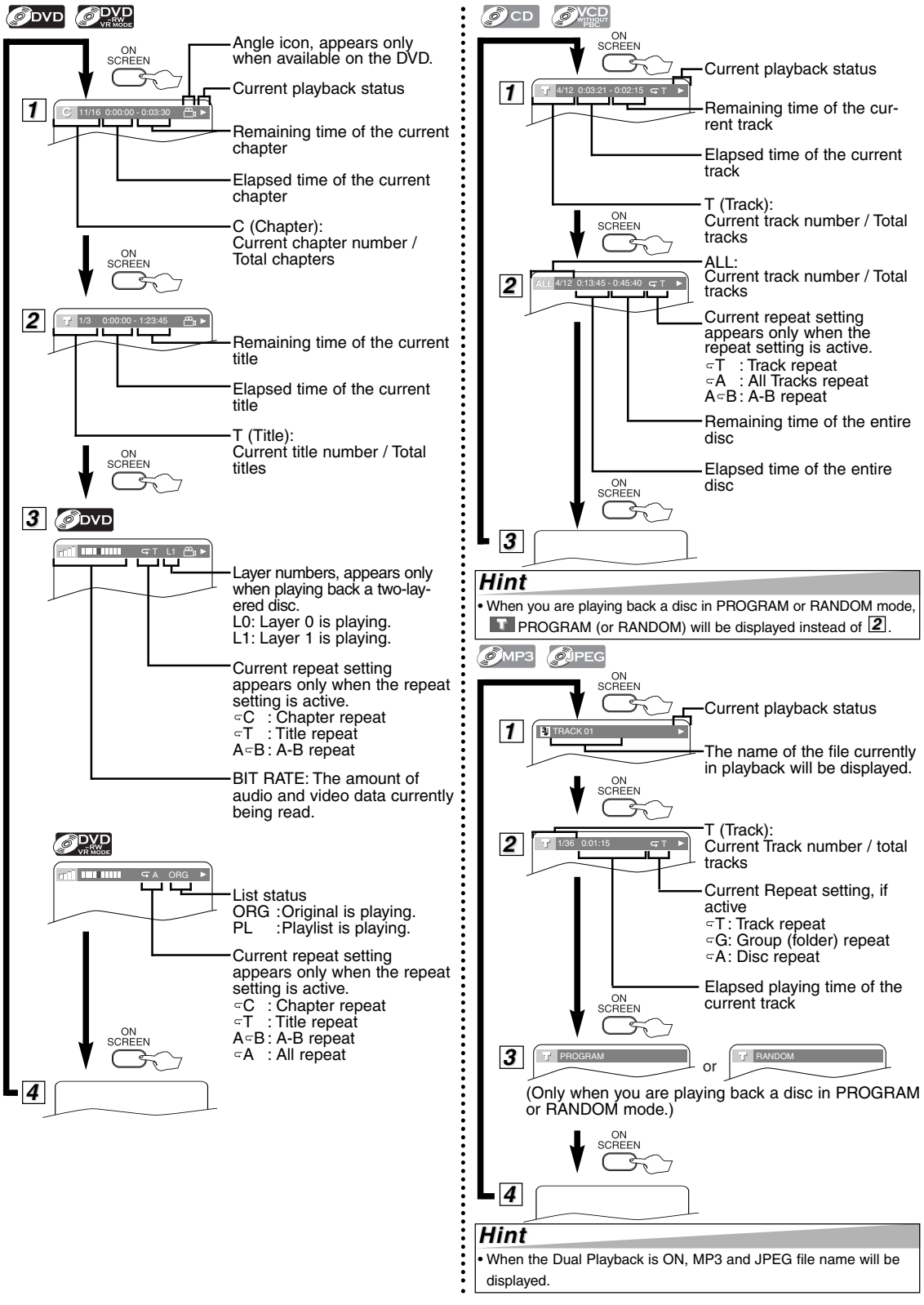
- To cancel Folder Playback, press **MODE** again at step [1].
- If you press **FWD** ►► or **REV** ◄◄ during Folder Playback, a JPEG file will be paused.
- Zooming or rotating a JPEG file during Folder Playback may cause an intermittent sound.
- Depending on the data size of each file, Folder Playback may not function properly. (Refer to "Applicable JPEG file" on page 12.)

Functions

Downloaded From Disc-Player.com Sharp Manuals

On-Screen Display

You can check the information about the current disc by pressing **ON SCREEN** on the remote control.


DVD
DVD RW VR MODE
ON SCREEN
1
C 11/16 0:00:00 - 0:03:30
Angle icon, appears only when available on the DVD.
Current playback status
Remaining time of the current chapter
Elapsed time of the current chapter
C (Chapter): Current chapter number / Total chapters
2
T 1/3 0:00:00 - 1:23:45
Remaining time of the current title
Elapsed time of the current title
T (Title): Current title number / Total titles
3
T L1
Layer numbers, appears only when playing back a two-layered disc.
L0: Layer 0 is playing.
L1: Layer 1 is playing.
Current repeat setting appears only when the repeat setting is active.
⊂C : Chapter repeat
⊂T : Title repeat
A⊂B: A-B repeat
BIT RATE: The amount of audio and video data currently being read.
A ORG
List status
ORG :Original is playing.
PL :Playlist is playing.
Current repeat setting appears only when the repeat setting is active.
⊂C : Chapter repeat
⊂T : Title repeat
A⊂B: A-B repeat
⊂A : All repeat
4
CD
VCD WITHOUT PBC
1
T 4/12 0:03:21 - 0:02:15 T
Current playback status
Remaining time of the current track
Elapsed time of the current track
T (Track): Current track number / Total tracks
2
ALL 4/12 0:13:45 - 0:45:40 T
ALL: Current track number / Total tracks
Current repeat setting appears only when the repeat setting is active.
⊂T : Track repeat
⊂A : All Tracks repeat
A⊂B: A-B repeat
Remaining time of the entire disc
Elapsed time of the entire disc
3
MP3
JPEG
1
TRACK 01
Current playback status
The name of the file currently in playback will be displayed.
2
T 1/36 0:01:15 T
T (Track): Current Track number / total tracks
Current Repeat setting, if active
⊂T: Track repeat
⊂G: Group (folder) repeat
⊂A: Disc repeat
Elapsed playing time of the current track
3
T PROGRAM
or
T RANDOM
(Only when you are playing back a disc in PROGRAM or RANDOM mode.)
4

Hint

- When you are playing back a disc in PROGRAM or RANDOM mode, T PROGRAM (or RANDOM) will be displayed instead of 2.

Hint

- When the Dual Playback is ON, MP3 and JPEG file name will be displayed.

Functions

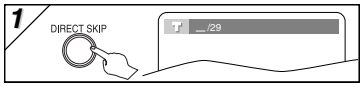
Downloaded From Disc-Player.com Sharp Manuals

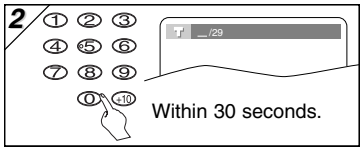
Search Function

Track Search

CD VCD MP3 JPEG

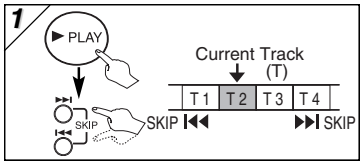
Using DIRECT SKIP





- For the discs with less than 10 tracks, press the track number directly.
- **+10** button can also bring up the Track Search display.
- For discs with 10 or more but less than 100 tracks, to play back a single-digit track, press **0** first, then the track number (e.g. for track 3, press **0**, **3**). To play back a double-digit track, press the track number.
- For discs with 100 or more tracks, to play back a single or a double-digit track, press **0** first, then the track number (e.g. for track 3, press **0**, **0**, **3**, and for track 26, press **0**, **2**, **6**). To play back a triple-digit track, press the track number.

Using SKIP ⏮ / ⏭



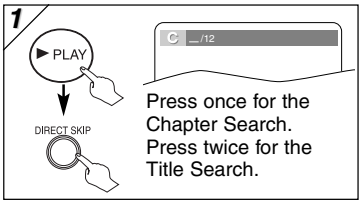
Hint

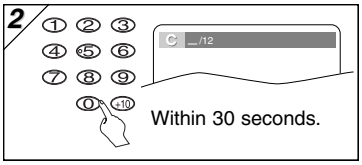
- **SKIP ⏮ / ⏭** are not available when playback is stopped.

Title / Chapter Search

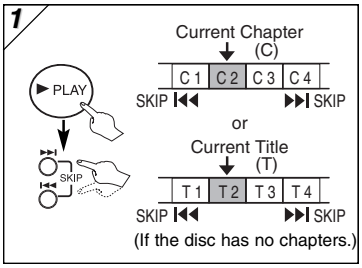
DVD DVD-RW VR MODE

Using DIRECT SKIP





Using SKIP ⏮ / ⏭

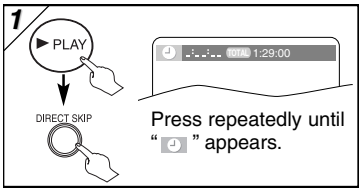


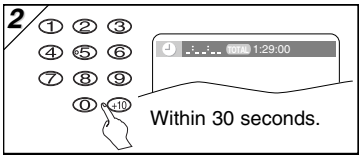
Hint

- Depending on the disc being played back, this function can also be performed by directly entering the desired chapter number with **the Number buttons**. Refer to the manual accompanying the disc.
- For Audio CDs and MP3, Track Search is not available for Programmed or Random Playback.

Time Search

DVD DVD-RW VR MODE CD VCD





Hint

- When there is no need to enter a number, "0" appears automatically.
  For example, "0: 0_: __" appears in the Time Search display if the total time of the title or track is less than 10 minutes.
- Press **CLEAR** to erase the incorrect input at step [2].

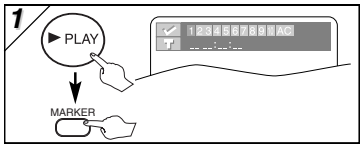
Functions

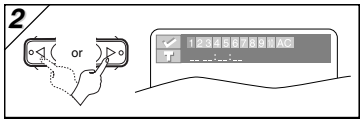
Marker Setup

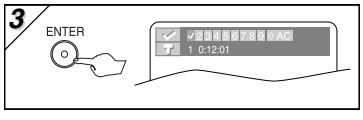
DVD DVD-RW VR MODE CD VCD

This feature allows you to assign a specific point on a disc to be called back later.

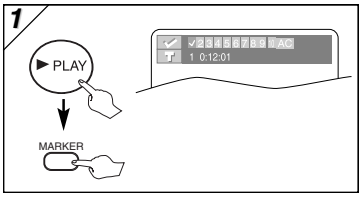
To set a marker

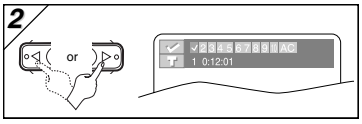


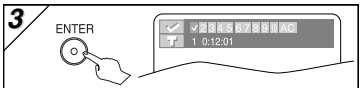




To return to the marker later



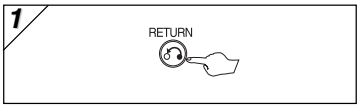




At the desired marker

- Playback will restart from the specific point which you set.

To exit the Marker display



Hint

- The Marker display will disappear in about 30 seconds when there is no input.
- To clear a marker, select the marker to be cleared at step [2] in the section "To set a marker" or "To return to the marker later," and then press **CLEAR**.
- Opening the disc tray or turning off the power will erase all markers.
- Selecting "AC" at step [2] in the section "To set a marker" or "To return to the marker later" will also erase all markers.
- You can mark up to 10 points.

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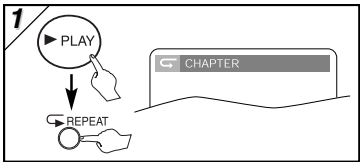
Repeat / Random / Programmed Playback

Repeat Playback

DVD DVD-RW VR MODE CD VCD WITHOUT PBC MP3 JPEG

Repeat function is available only during playback.



Each time you press **REPEAT**, repeat function changes as examples below.

DVD

- **OFF** (repeat **off**)
- **CHAPTER** (**current chapter** repeat)
- **TITLE** (**current title** repeat)

DVD-RW VR MODE

- **OFF** (repeat **off**)
- **CHAPTER** (**current chapter** repeat)
- **TITLE** (**current title** repeat)
- **ALL** (**entire disc** repeat)

CD VCD WITHOUT PBC

- **OFF** (repeat **off**)
- **TRACK** (**current track** repeat)
- **ALL** (**entire disc** repeat)

MP3 JPEG

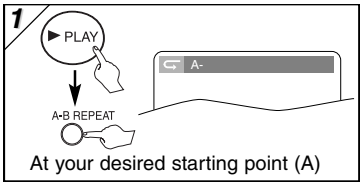
- **OFF** (repeat **off**)
- **TRACK** (**current track** repeat)
- **GROUP** (**current group** repeat)
- **ALL** (**entire disc** repeat)

Hint

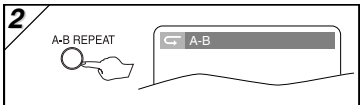
- Repeat setting will be cleared when moving to another title, chapter, track or group.
- Repeat playback may not function with some discs or during Repeat A-B Playback.

Repeat A-B Playback

DVD DVD-RW VR MODE CD VCD



At your desired starting point (A)



At your desired end point (B)

- Point B should be in the same title or track as point A.

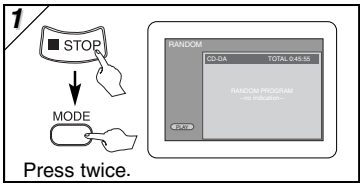
Hint

- To exit the sequence, press **A-B REPEAT** so that OFF appears.
- To cancel Point A, press **CLEAR**.
- This function does not work in the other repeat modes.

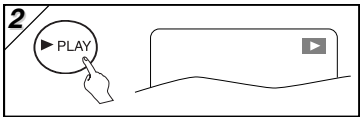
Random Playback

CD MP3 JPEG

This function shuffles the playing order of tracks instead of playback in the sequence.



Press twice.



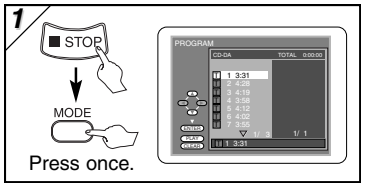
Hint

- To repeat the current track in the random selections, press **REPEAT** repeatedly until "TRACK" appears during playback.
- To repeat the entire random selections, press **REPEAT** repeatedly until "ALL" appears during playback.
- Random Playback of MP3 or JPEG is not available while Dual Playback is ON.

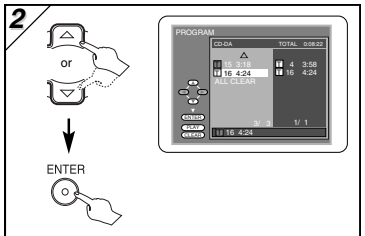
Programmed Playback

CD MP3 JPEG

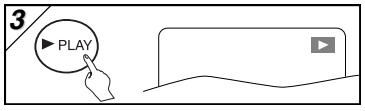
You may determine the order in which tracks will play.



Press once.



- Up to 99 tracks can be ordered.
- If 8 or more tracks were in a programme, use **SKIP** ⏮ / ⏭ to see all the tracks.
- While a MP3 or JPEG folder is open:
  - Press **Cursor** ▶ when you want to go to the next hierarchy.
  - Press **Cursor** ◀ when you want to go back to the previous hierarchy (except for the first hierarchy).
  - Press **TITLE** when you want to go back to the first hierarchy.



Hint

- Press **CLEAR** at step [2] to erase the most recently entered track.
- To erase all programmed tracks at once, select "ALL CLEAR" and press **ENTER** at step [2].
- While a programme is being played back, **STOP** ■ works as follows;
  ⇒Press **STOP** ■ and **PLAY** ▶ next, so that the programmed playback restarts. (CD playback restarts from the current point. MP3 or JPEG playback restarts from the beginning of the current track.)
  ⇒Press **STOP** ■ twice and **PLAY** ▶ next, so that playback restarts from the first track in the original order. However, your programmed playback can be restarted when you follow the above steps. (Your programmes are still stored until either the disc tray is open or power is turned off.) On some discs, **STOP** ■ will not work while the Resume message appears. Please wait until the message disappears.
- To repeat the current track in the programme, press **REPEAT** repeatedly until "TRACK" appears during playback.
- To repeat the entire programme, press **REPEAT** repeatedly until "ALL" appears during playback.
- Programmed Playback of MP3 or JPEG is not available while Dual Playback is ON.

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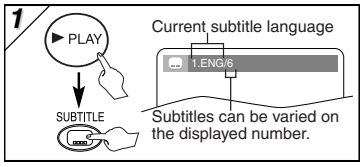
Special Settings

Subtitle Language

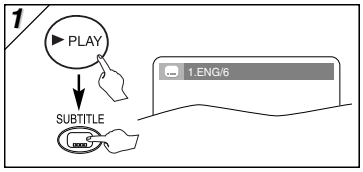
This unit allows you to select a subtitle language (if available) during DVD playback.

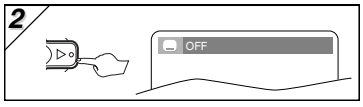


Each time you press **SUBTITLE**, subtitle language changes as example below.

OFF (no subtitles)
ENG (English subtitles)
FRE (French subtitles)

To set subtitle ON/OFF



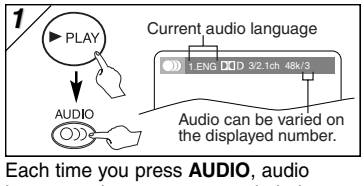


Hint

- If your language is not shown after pressing **SUBTITLE** several times, the disc may not have that language. However, some discs allow you to change subtitle languages setting in the disc menu. (Operation varies depending on the disc, so refer to the manual included in the disc.)
- When "NOT AVAILABLE" appears on the TV screen, it means no subtitle is recorded on the scene.
- If you choose a language that has 3-letter-language code, the code will be displayed every time you change the subtitle language setting. If you choose any other languages, '---' will be displayed instead. (Refer to page 22.)

Audio Language

This unit allows you to select an audio language (if multiple languages are available) during DVD playback.



Each time you press **AUDIO**, audio language changes as example below.

ENG (English audio)
SPA (Spanish audio)
FRE (French audio)

Hint

- The sound mode cannot be changed during playback of discs not recorded in double sound.
- Audio language selection cannot be made during Rapid Play. (Refer to page 11.)
- If your language is not shown after pressing **AUDIO** several times, the disc may not have that language. However, some discs allow you to change multiple audio languages setting in the disc menu. (Operation varies depending on the disc, so refer to the manual included in the disc.)
- When "NOT AVAILABLE" appears on the TV screen, it means no audio is recorded on the scene.
- If you choose a language that has 3-letter-language code, the code will be displayed every time you change the audio language setting. If you choose any other languages, '---' will be displayed instead. (Refer to page 22.)

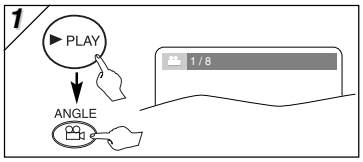
For VR mode only:

- Pressing **AUDIO** cycles the sound mode through MAIN, SUB, MAIN + SUB.
- DVD-RW discs recorded in double sound (2 languages) can be played back in either sound mode of MAIN, SUB or MAIN + SUB.
- With discs recorded in VR mode, changing the audio (MAIN, SUB or MAIN+SUB) is effective only when using an analogue connection. Although you may be able to change the settings of the on-screen display, it will not affect the sound when using a digital connection.

Mode		AUDIO OUTPUT	Display on the TV screen
MAIN	L	Main Audio	MAIN
	R	Main Audio	
SUB	L	Sub Audio	SUB
	R	Sub Audio	
MAIN SUB	L	Main Audio	MAIN+ SUB
	R	Sub Audio	

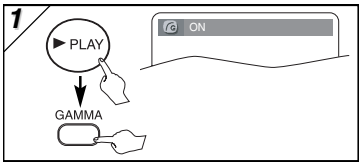
Camera Angles

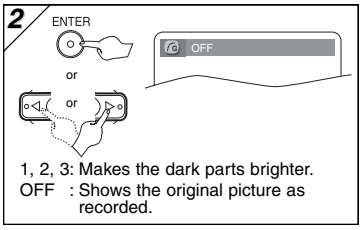
Some DVD discs may contain scenes which have been shot simultaneously from various angles. You can change the camera angle if " " appears on the screen. If the "ANGLE ICON" setting is "OFF" in the OTHERS menu, " " will not appear. (Refer to pages 18, 21.)



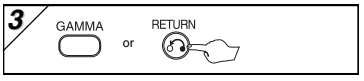
Digital Gamma Setting

DIGITAL GAMMA is a digital image quality enhancement function that gives a richer image by brightening the darker and more obscure portions of the image without altering the brightness of the brighter portions thereby making the entire image easier to see. Three digital gamma settings are available to allow for differences in the images played back and in brightness of the room.





1, 2, 3: Makes the dark parts brighter.
OFF : Shows the original picture as recorded.



Hint

- The setting will be kept even if the unit is turned off.
- This function cannot be used during Rapid Play.

Functions

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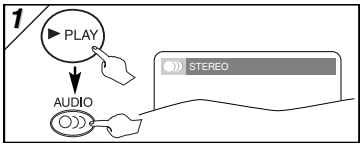
Stereo Sound Mode

CD VCD

This unit allows you to select a sound mode during CD playback.



Each time you press **AUDIO**, sound mode changes as example below.

STEREO (Right and left channels are active.)
L-ch (Left channel is active.)
R-ch (Right channel is active.)

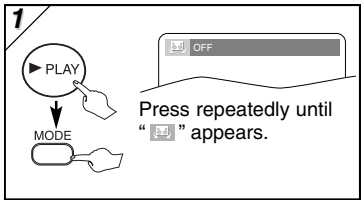
Hint

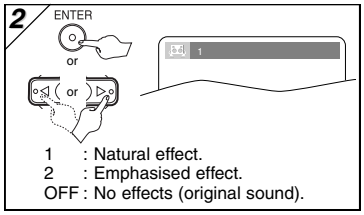
- Virtual Surround cannot be changed when the sound mode is set to either L-ch or R-ch.
- Stereo Sound Mode is not available on DTS CD.

Virtual Surround

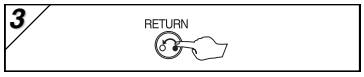
DVD DVD RW VR MODE CD VCD MP3

You can enjoy stereophonic virtual world on your existing 2 channel stereo system.





1 : Natural effect.
2 : Emphasised effect.
OFF : No effects (original sound).



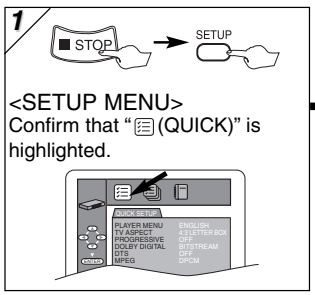
Hint

- The setting will be kept even if the unit is turned off.
- On Audio CDs and Video CDs, Virtual Surround will not be effective if the sound mode is set to something other than "STEREO". Refer to "Stereo Sound Mode".
- Turn down the level or select "OFF" if the sound is distorted.
- This function cannot be used during Rapid Play.

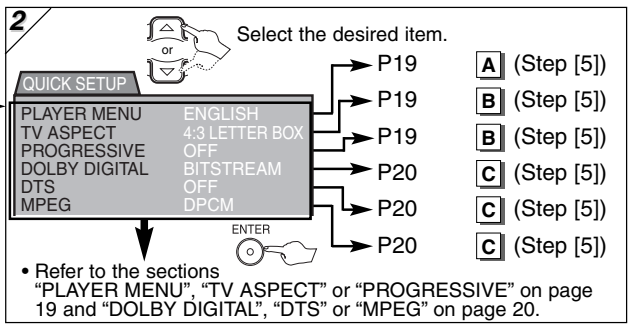
DVD Setup

QUICK SETUP Menu

You can select the "PLAYER MENU", "TV ASPECT", "PROGRESSIVE", "DOLBY DIGITAL" , "DTS" or "MPEG" from the QUICK SETUP menu quickly.



ENTER

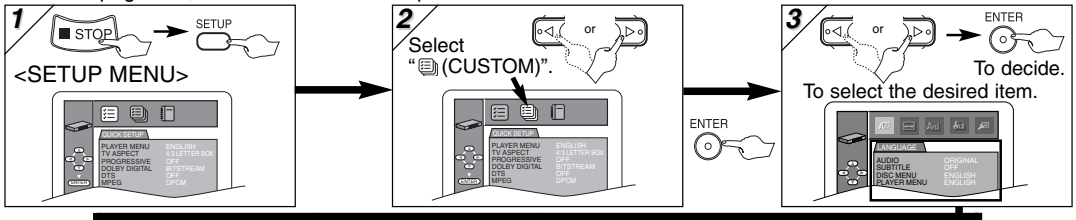


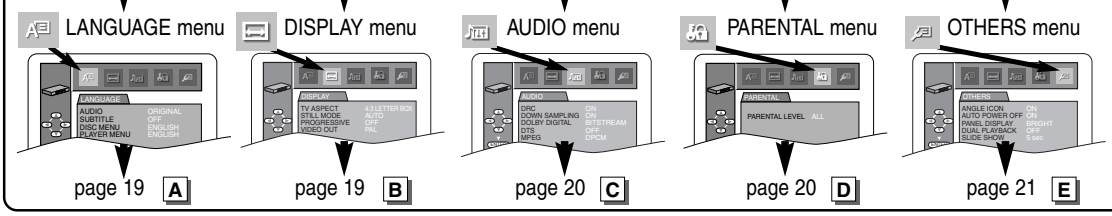
- Refer to the sections "PLAYER MENU", "TV ASPECT" or "PROGRESSIVE" on page 19 and "DOLBY DIGITAL", "DTS" or "MPEG" on page 20.

CUSTOM Menu

You can change the settings of the unit.

- QUICK on pages 19, 20 indicates DVD Setup menus also accessible from the QUICK SETUP menu.





Functions

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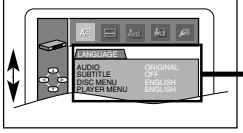
A LANGUAGE Setting

Follow the steps [1] to [3] in the "CUSTOM Menu" section on page 18.

4 Select the desired item.

LANGUAGE menu



ENTER

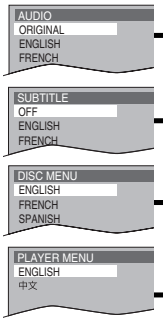
5 Select the desired language.

AUDIO: *1 *2
(Default: ORIGINAL)
Sets the audio language.

SUBTITLE: *1 *2
(Default: OFF)
Sets the subtitle language.

DISC MENU: *1
(Default: ENGLISH)
Sets the language in DVD menu.

PLAYER MENU: QUICK
(Default: ENGLISH)
Sets the language for the On-Screen Display.



ENTER

6 To exit the menu.

SETUP

Hint

*1
- Language options are not available with some discs.
- If OTHER is selected in the AUDIO, SUBTITLE or DISC MENU screen, press four-digit number to enter the code for the desired language. (Refer to the language code list on page 22.)
- Only the languages supported by the disc can be selected.

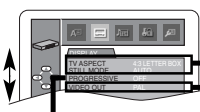
*2
- Language Setting for Audio and Subtitle are not available with some discs. Then use **AUDIO** and **SUBTITLE**. Details are on page 17.

B DISPLAY Setting

You can change the display functions. Follow the steps [1] to [3] in the "CUSTOM Menu" section on page 18.

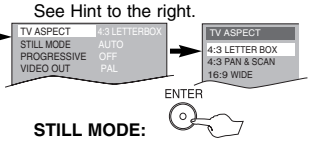
4 Select the desired item.

DISPLAY menu



ENTER

5 **TV ASPECT:** QUICK
(Default: 4:3 LETTER BOX)
See Hint to the right.

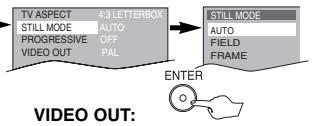


ENTER

Select the desired setting.

ENTER

STILL MODE:
(Default: AUTO) See Hint to the right.

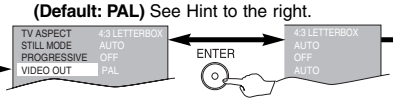


ENTER

Select the desired setting.

ENTER

VIDEO OUT:
(Default: PAL) See Hint to the right.



ENTER

6 To exit the menu.

SETUP

Hint

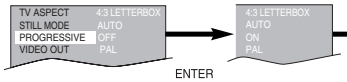
TV ASPECT:
- Select "4:3 LETTER BOX", so that black bars may appear on the top and bottom of the screen.
- Select "4:3 PAN & SCAN" for a full height picture with both sides adjusted.
- Select "16:9 WIDE" if a widescreen TV is connected to this unit.

STILL MODE:
- Select "AUTO" usually.
- If you select "FIELD", the picture in the still mode will be stabilised.
- If you select "FRAME", the picture in the still mode will be highly defined.

VIDEO OUT:
When playing back an NTSC disc
- If you have a PAL TV, select PAL; the modified PAL signal will be output.
- If you have an NTSC TV or multi system TV, select AUTO; the NTSC signal will be output.

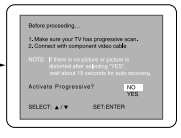
PROGRESSIVE:
- You can set "PROGRESSIVE" to "OFF" either in the DISPLAY menu or by pressing and holding **PLAY ►** on the front of the unit for more than 5 seconds.
- When "PROGRESSIVE" is "ON", video signals from the unit's VIDEO OUT and S-VIDEO OUT jacks will be distorted or not be output at all.

5 **PROGRESSIVE:** QUICK
(Default: OFF) See Hint to the right.



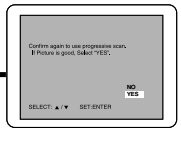
ENTER

SETUP



Select YES.

If you do not press any buttons for 15 seconds, Progressive Scan will switch to OFF.



Select YES.

ENTER

6 To confirm the PROGRESSIVE.

ENTER

Functions

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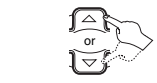
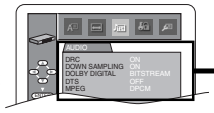
C AUDIO Setting

Choose the appropriate audio settings for your equipments. It only affects during the playback of DVD discs. Follow the steps [1] to [3] in the "CUSTOM Menu" section on page 18.

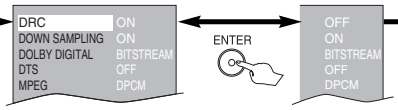
4 Select the desired item.



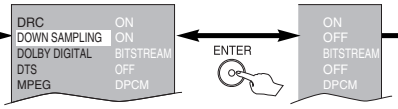
AUDIO menu



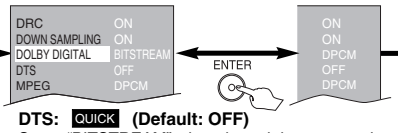
5 **DRC (Dynamic Range Control): (Default: ON)**
Set to "ON" to compress the range between soft and loud sounds.



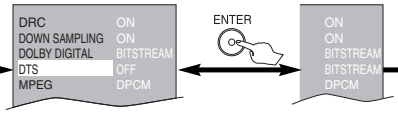
DOWN SAMPLING: (Default: ON)
Set to "ON" when outputting in 48 kHz.
Set to "OFF" when outputting the original sound.



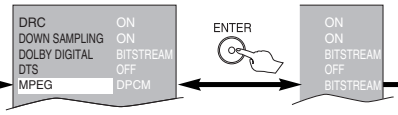
DOLBY DIGITAL: QUICK **(Default: BITSTREAM)**
Set to "BITSTREAM" when the unit is connected to a Dolby Digital receiver.
• BITSTREAM: Outputs a Dolby Digital Signals.
• DPCM: Convert the Dolby Digital into DPCM (2 channel).



DTS: QUICK **(Default: OFF)**
Set to "BITSTREAM" when the unit is connected to DTS decoder.



MPEG: QUICK **(Default: DPCM)**
Set to "BITSTREAM" when the unit is connected to MPEG decoder.
• DPCM: Convert an MPEG into DPCM.
• BITSTREAM: Outputs the MPEG Signals.



6 To exit the menu.

Hint

DRC:
• This function is available only on the discs which are recorded in the Dolby Digital format.

DOWN SAMPLING:
• When playing back a disc with copyright protection, the sound will be down sampled at 48kHz, even if you set to "OFF".
• This function is available only on digital outputting of a disc recorded in 96kHz.

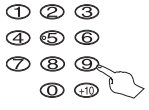
D PARENTAL Setting

Parental Control limits the disc viewing that exceed your settings. (An incorrect password will not play.)
This feature prevents your children from viewing inappropriate materials.

Parental Levels

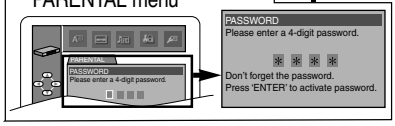
Parental Level allows you to set the rating levels of your DVD discs. Playback will stop if the ratings exceed the levels you set. Follow the steps [1] to [3] in the "CUSTOM Menu" section on page 18.

4 Enter your desired four-digit password (except for 4737).



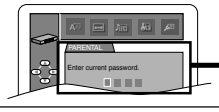
ENTER

PARENTAL menu

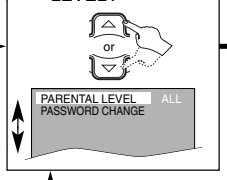


or

If you have set a password already, enter the current four-digit password.

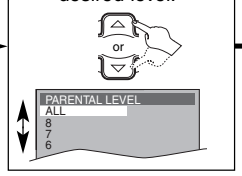


5 Select "PARENTAL LEVEL".



ENTER

6 Select the desired level.



ENTER

7 To exit the menu.

CONTROL LEVELS
• ALL : All parental locks are cancelled.
• Level 8 : DVD softwares of any grades (adult/general/children) can be played back.
• Levels 7 to 2 : Only DVD softwares intended for general use and children can be played back.
• Level 1 : Only DVD softwares intended for children can be played back, with those intended for adult and general use prohibited.

Hint

• DVD-Video discs may not respond to the parental lock settings. Make sure this function works with your DVD-Video discs.

Functions

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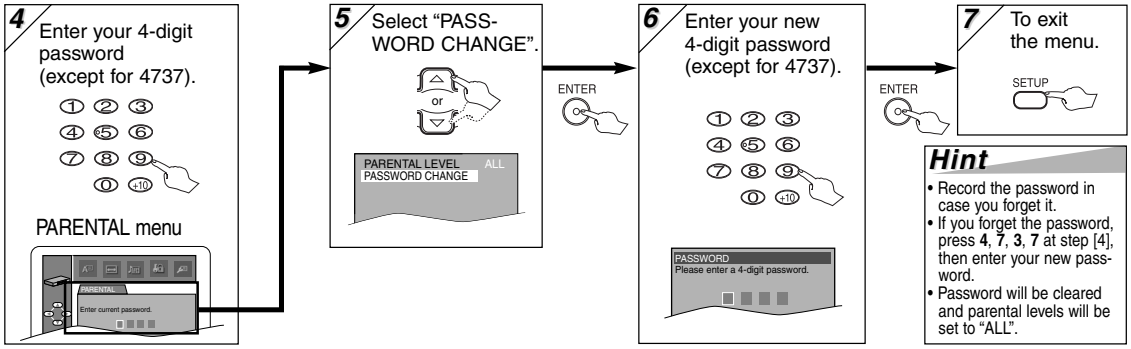
To Change the Password for Parental Controls

You can change your password for parental controls. Follow the steps [1] to [3] in the "CUSTOM Menu" section on page 18.

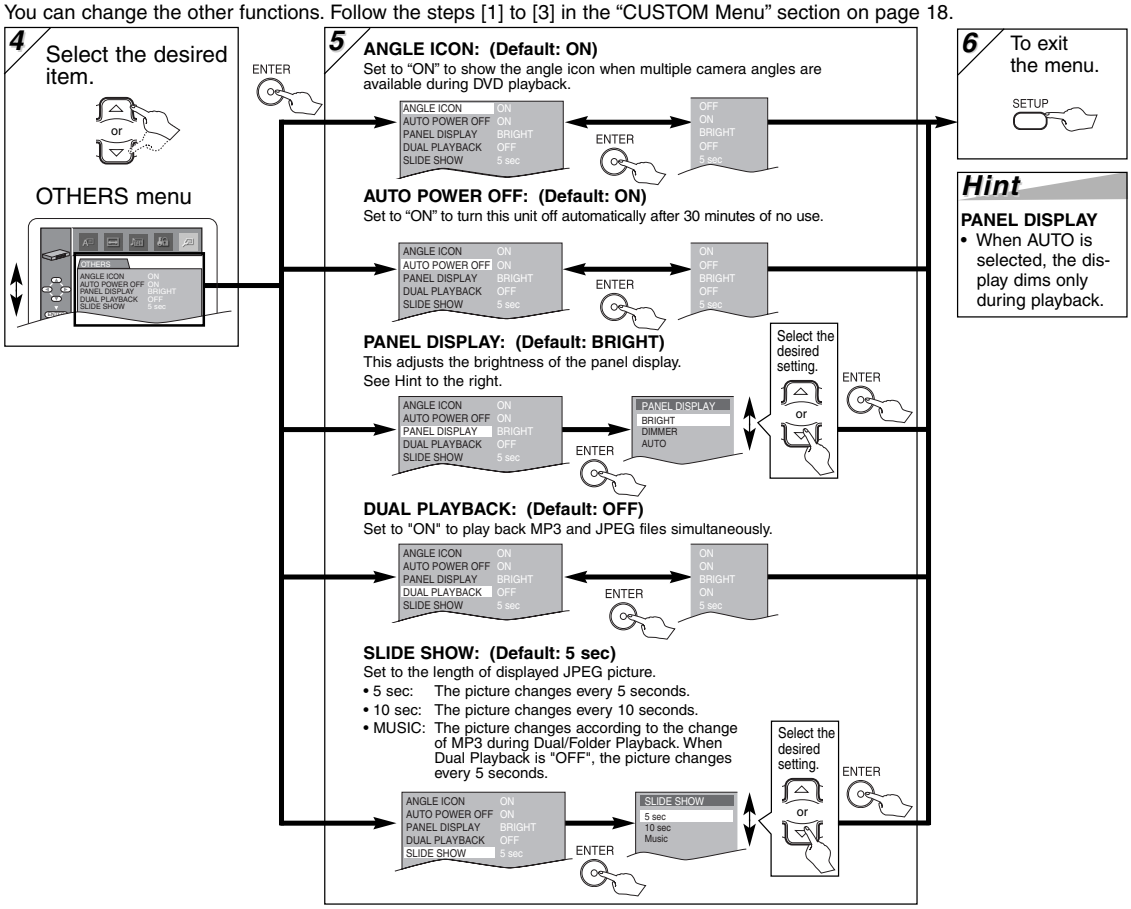


Hint

- Record the password in case you forget it.
- If you forget the password, press **4**, **7**, **3**, **7** at step [4], then enter your new password.
- Password will be cleared and parental levels will be set to "ALL".

E OTHERS Setting

You can change the other functions. Follow the steps [1] to [3] in the "CUSTOM Menu" section on page 18.

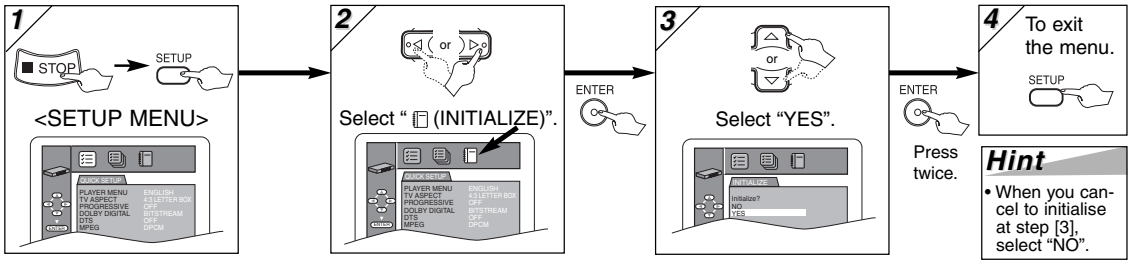

4
Select the desired item.
or
OTHERS menu
ENTER
5
ANGLE ICON: (Default: ON)
Set to "ON" to show the angle icon when multiple camera angles are available during DVD playback.
AUTO POWER OFF: (Default: ON)
Set to "ON" to turn this unit off automatically after 30 minutes of no use.
PANEL DISPLAY: (Default: BRIGHT)
This adjusts the brightness of the panel display.
See Hint to the right.
Select the desired setting.
DUAL PLAYBACK: (Default: OFF)
Set to "ON" to play back MP3 and JPEG files simultaneously.
SLIDE SHOW: (Default: 5 sec)
Set to the length of displayed JPEG picture.
• 5 sec: The picture changes every 5 seconds.
• 10 sec: The picture changes every 10 seconds.
• MUSIC: The picture changes according to the change of MP3 during Dual/Folder Playback. When Dual Playback is "OFF", the picture changes every 5 seconds.
6
To exit the menu.
SETUP

Hint

PANEL DISPLAY

- When AUTO is selected, the display dims only during playback.

Reset to the Default Setting (except for PARENTAL Setting)



Hint

- When you cancel to initialise at step [3], select "NO".

Functions

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Information

Language List

Language	Code	Language	Code	Language	Code	Language	Code
A-B		French [FRE]	5264	Macedonian	5957	Siswat	6565
Abkhazian	4748	Frisian	5271	Malagasy	5953	Slovak	6557
Afar	4747	Galician	5358	Malay	5965	Slovenian	6558
Afrikaans	4752	Georgian	5747	Malayalam	5958	Somali	6561
Albanian	6563	German [GER]	5051	Maltese	5966	Spanish [SPA]	5165
Amharic	4759	Greek [GRE]	5158	Maori	5955	Sundanese	6567
Arabic	4764	Greenlandic	5758	Marathi	5964	Swahili	6569
Armenian	5471	Guarani	5360	Moldavian	5961	Swedish [SWE]	6568
Assamese	4765	Gujarati	5367	Mongolian	5960	**T**	
Aymara	4771	Hausa	5447	Nauru	6047	Tagalog	6658
Azerbaijani	4772	Hebrew	5569	Nepali	6051	Tajik	6653
Bashkir	4847	Hindi	5455	Norwegian [NOR]	6061	Tamil	6647
Basque	5167	Hungarian [HUN]	5467	**O-R**		Tatar	6666
Bengali;Bangla	4860	**I-K**		Occitan	6149	Telugu	6651
Bhutani	5072	Icelandic [ICE]	5565	Oriya	6164	Thai	6654
Bihari	4854	Indonesian	5560	Oromo(Afan)	6159	Tibetan	4861
Bislama	4855	Interlingua	5547	Panjabi	6247	Tigrinya	6655
Breton	4864	Interlingue	5551	Pashto;Pushto	6265	Tonga	6661
Bulgarian	4853	Inupiak	5557	Persian	5247	Tsonga	6665
Burmese	5971	Irish [IRI]	5347	Polish	6258	Turkish [TUR]	6664
Byelorussian	4851	Italian [ITA]	5566	Portuguese [POR]	6266	Turkmen	6657
C-E		Japanese [JPN]	5647	Quechua	6367	Twi	6669
Cambodian	5759	Javanese	5669	Rhaeto-Romance	6459	**U-Z**	
Catalan	4947	Kannada	5760	Romanian [RUM]	6461	Ukrainian	6757
Chinese [CHI]	7254	Kashmiri	5765	Russian [RUS]	6467	Urdu	6764
Corsican	4961	Kazakh	5757	**S**		Uzbek	6772
Croatian	5464	Kinyarwanda	6469	Samoan	6559	Vietnamese	6855
Czech	4965	Kirghiz	5771	Sangho	6553	Volapuk	6861
Danish [DAN]	5047	Kirundi	6460	Sanskrit	6547	Welsh	4971
Dutch [DUT]	6058	Korean [KOR]	5761	Scots Gaelic	5350	Wolof	6961
English [ENG]	5160	Kurdish	5767	Serbian	6564	Xhosa	7054
Esperanto	5161	**L-N**		Serbo-Croatian	6554	Yiddish	5655
Estonian	5166	Laothian	5861	Sesotho	6566	Yoruba	7161
F-H		Latin	5847	Setswana	6660	Zulu	7267
Faroese	5261	Latvian;Lettish	5868	Shona	6560		
Fiji	5256	Lingala	5860	Sindhi	6550		
Finnish [FIN]	5255	Lithuanian	5866	Singhalese	6555		

If you choose a Language that has a 3 letter language code, the code will be displayed every time you change the Audio or Subtitle language setting on page 17. If you choose any other languages, '---' will be displayed instead. (3 letter language code is written in bracket.)

Specifications

PRODUCT TYPE
DVD Player

DISCS (PLAYBACK COMPATIBILITY)
DVD Video
DVD-RW/-R, DVD+RW/+R
Audio CD
Video CD
CD-RW/-R

OUTPUT SIGNAL FORMAT
PAL colour system

FREQUENCY RESPONSE

DVD (linear sound) :	20 Hz to 20 kHz (sample rate: 48 kHz)
	20 Hz to 44 kHz (sample rate: 96 kHz)
CD :	20 Hz to 20 kHz

SIGNAL-TO-NOISE RATIO (S/N RATIO)

CD :	120 dB (JEITA)

DYNAMIC RANGE

DVD (linear sound) :	102 dB
CD :	99 dB (JEITA)

TOTAL DISTORTION FACTOR

DVD :	0.0025% (JEITA)
CD :	0.003% (JEITA)

WOW AND FLUTTER
Below the measurement limitation (+/-0.001% W PEAK) (JEITA)

CONNECTIONS

Video Output	One RCA connector, 1 Vpp (75 Ω)
Component video output	One pin jack (Y), 1 Vpp (75 Ω) Two pin jacks (C_R/ P_R, C_B/ P_B), 700 mVpp (75 Ω)
S-Video output	Mini DIN 4-pin jack (75 Ω)
Analogue audio output	Two RCA connectors (one left channel, one right channel) 2 Vrms (47 kΩ)
Coaxial digital audio output	One pin jack, 500 mVpp (75 Ω)
Optical digital audio output	One optical connector

POWER SOURCE
220-240 V ~ +/- 10%, 50/60 Hz +/- 0.5%

POWER CONSUMPTION
12 W (standby: 0.9 W)

OPERATING TEMPERATURE
41F° to 104F° (5°C to 40°C)

DIMENSIONS
W 435 mm H 51 mm D 211 mm

WEIGHT
Approx 1.3 kg

• Designs and specifications are subject to change without notice.

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Troubleshooting Guide

If this unit does not perform properly when operated as instructed in this Operation Manual, check this unit consulting the following checklist.

PROBLEM	CORRECTIVE ACTION
No power.	• Make sure the power plug is connected to an AC outlet. • Make sure the power is turned on.
The unit turns off suddenly.	• Check if the "AUTO POWER OFF" is set to "OFF".
This unit does not respond to the remote control.	• Check if the power plug is connected to an AC outlet. • Check the batteries in the remote control. • Aim the remote control directly at the remote sensor. If necessary, remove all the obstacles between the sensor and the remote. • You have to be within 7 m (23 feet) of this unit.
No picture.	• Connect the Video cables firmly. • Insert a correct video disc that plays on this unit.
Disc cannot be played.	• Insert the disc. • Clean the disc. • Place the disc correctly with the label side up. • Cancel the parental lock or change the control levels. • Handle a disc with special care so that it does not have fingerprints, scratches, or dusts on its surface. • If the recorded portion of the disc is too small (less than 55 mm across), it may not play back properly.
No sound.	• Connect the Audio cables firmly. • Turn the power of the audio component on. • Correct the audio output settings. • Correct the input settings on the audio component.
No DTS audio is output.	• Use a DIGITAL AUDIO OUT jack when outputting the DTS audio.
Distorted picture.	• Connect this unit directly to the TV. • There are some cases where pictures may be slightly distorted, and those are not a sign of a malfunction. • During the playback of a 2-layered disc, pictures may stop for a moment. This happens while the 1st layer is being switched to the 2nd layer. This is not a malfunction. • Check if the INTERLACE/PROGRESSIVE mode is set correctly according to your TV. See page 8. • This happens right after fast forwarding or rewinding. This is not a malfunction.
Audio or subtitle language does not match the set up.	• The selected language is not available for audio or subtitles on the DVD. This is not a malfunction.
The camera angle cannot be changed.	• The DVD does not contain sequences recorded from different camera angles. This is not a malfunction.
Audio or subtitle language cannot be changed.	• The DVD does not contain audio source or subtitles in the selected language. This is not a malfunction.
"Prohibited icon" appears on the screen, prohibiting an operation.	• That operation is prohibited by this unit or the disc. This is not a malfunction.

• Some functions are not available in specific modes, but this is not a malfunction. Read the description in this Operation Manual for details on correct operations.
• Playback from a desired track and random playback are not available during program playback.
• Some functions are prohibited on some discs.

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WARRANTY

Consumer Electronic Products

Congratulations on Your Purchase!

This Sharp product is warranted against faults in materials and manufacture for a period of twelve (12) months from the date of original purchase.

If service is required during the warranty period, please contact your nearest Sharp Approved Service Centre. These repairs would be carried out at no charge to the owner, subject to the conditions specified herein.

The owner is responsible for any transportation and insurance costs if the product has to be returned for repair.

This warranty does not extend to accessories or defects or injuries caused by or resulting from causes not attributable to faulty parts or the manufacture of the product, including but not limited to, defect or injury caused by or resulting from misuse, abuse, neglect, accidental damage, improper voltage, liquid spillage, vermin infestation, software, or any alterations made to the product which are not authorised by Sharp.

Please retain your sales documentation, as this should be produced to validate a warranty claim.

This warranty is in addition to and in no way limits, varies or excludes any express and implied rights and remedies under any relevant legislation in the country of sale.

IMPORTANT
DO NOT RETURN THIS DOCUMENT TO SHARP

For your reference, please enter the particulars of your purchase below and retain, with your purchase documentation.

Model No. _____

Serial No. _____

Date of Purchase _____

Retailer _____

SHARP

SHARP CORPORATION OF AUSTRALIA PTY. LIMITED
ABN 40 003 039 405
1 Huntingwood Drive
Huntingwood NSW 2148

SHARP CORPORATION OF NEW ZEALAND LIMITED
59 Hugo Johnston Drive
Penrose, Auckland

SPform02I (JUNE 2004)

IMPORTANT NOTICE: This warranty applies only to products sold in Australia & New Zealand

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